

WHAT IS CLAIMED IS:

- 1 1. A voice-data control system for use with a
2 communication facility including remote terminals for
3 individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument including
5 voice communication means for providing audio response
6 signals and digital input means for providing digital
7 response signals, said control system comprising:
8 cue means for cueing select ones of said
9 terminals to prompt selective actuation of said voice
10 communication means and said digital input means to
11 provide responsive signals;
12 status means to selectively identify response
13 signals from each select terminal as digital control
14 signals, digital data signals or audio signals;
15 memory means for storing individual caller
16 data; * * *
17 means for addressing individual caller data
18 from said memory means in response to digital signals
19 from said digital input means;
20 means for storing digital data signals from
21 said digital input means as additional individual caller
22 data;
23 control means for actuating said cue means and
24 said status means to cue and identify audio signals,
25 operation of said control means being conditioned on the
26 failure of said means for addressing individual caller
27 data to provide signals representative of caller data
28 from said memory means; and
29 means for storing said audio signals represen-
30 tative of caller data in said memory means responsive to
31 cueing by said cue means.

1 2. A system according to claim 1 further
2 including interface processor means for receiving said
3 audio signals representative of caller data and said
4 digital signals for processing.

1 3. A system according to claim 2 wherein said
2 interface processor includes means to isolate a subset
3 of said callers.

1 4. A system according to claim 1 further
2 including consumable key test means to qualify callers
3 with respect to limited use.

1 5. A system according to claim 1 wherein said
2 communication facility provides automatic number
3 identification (ANI) signals and said status means
4 selectively identifies said automatic number identifica-
5 tion signals as digital control signals or digital data
6 signals.

1 6. A system according to claim 5 further
2 including consumable key test means to qualify callers
3 with respect to limited use and wherein said callers are
4 identified by said automatic number identification (ANI)
5 signals.

1 7. A voice-data control system for use with a
2 communication facility including remote terminals for
3 individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument including
5 voice communication means for providing audio response
6 signals and digital input means for providing digital
7 response signals, said control system comprising:

8 cue means for cueing select ones of said
9 terminals to prompt selective actuation of said voice

10 communication means and said digital input means to
11 provide response signals;

12 status means to selectively identify responsive signals from each select terminal as digital
13 control signals, digital data signals or audio signals;

14 control means implementing a stored program to control said cue means and said status means in accordance with said program and said digital control signals to prompt the provision of responsive signals from each select terminal in accordance with said status means;

15 means for storing responsive signals from said select terminals including digital data signals and
16 audio signals as selectively identified by said status
17 means; and

18 means for processing said digital signals to
19 isolate a subset of said callers.

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8. A system according to claim 7 further including consumable key test means to qualify callers with respect to limited use.

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9. A system according to claim 7 wherein said means for processing includes interface processor means for receiving said audio signals representative of caller data and said digital signals for processing.

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10. A system according to claim 7 further including a plurality of audio response units for interfacing said means for processing to said communication facility.

1 11. A system according to claim 7 wherein
2 said communication facility provides automatic number
3 identification (ANI) signals and said status means
4 selectively identifies said automatic number identifica-
5 tion signals as digital control signals or digital data
6 signals.

1 12. A voice-data control system for use with
2 a communication facility including remote terminals for
3 individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument including
5 voice communication means for providing audio response
6 signals and digital input means for providing digital
7 response signals, said control system comprising:

8 cue means for cueing select ones of said
9 terminals to prompt selective actuation of said voice
10 communication means and said digital input means to
11 provide responsive signals;

12 status means to selectively identify respon-
13 sive signals from each select terminal as digital
14 control signals, digital data signals or audio signals;

15 control means implementing a stored program to
16 control said cue means and said status means in accord-
17 ance with said program and said digital control signals
18 to prompt responsive signals from each select terminal
19 in accordance with said status means, said program
20 implementing an interface communication operation; and

21 means for selectively storing responsive
22 signals from said select terminals including digital
23 data signals and audio signals as selectively identified
24 by said status means to indicate identification data and
25 process data provided by said callers.

APPLIED COMPUTER TECHNOLOGY

1 13. A system according to claim 12 wherein
2 said means for storing signals stores signals represen-
3 tative of billing information.

1 14. A system according to claim 13 wherein
2 said control means further implements inventory means to
3 account for items.

1 15. A system according to claim 14 wherein
2 said inventory means includes an inventory record of
3 said items.

1 16. A system according to claim 12 wherein
2 said communication facility provides automatic number
3 identification (ANI) signals and said status means
4 selectively identifies said automatic number identifica-
5 tion signals as digital control signals or digital data
6 signals.

1 17. A voice-data control system for use with
2 a communication facility including remote terminals for
3 individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument including
5 voice communication means for providing audio signals
6 and digital input means for providing digital response
7 signals, said control system comprising:

8 cue means for cueing select ones of said
9 terminals to prompt selective operation of said voice
10 communication means and said digital input means at said
11 terminals to provide responsive signals;

12 status means to selectively indicate respon-
13 sive signals from each select terminal as digital
14 control signals, digital data signals or audio signals;

15 control means for receiving said digital
16 control signals for actuating said cue means and said

17 status means to cue and identify responsive signals in
18 relation to the operation selectively prompted by said
19 cue means; and

20 means for storing and retrieving individual
21 caller data, including said audio signals for reproduc-
22 ing audio caller voice data at a remote terminal.

1 18. A system according to claim 17 further
2 including a plurality of audio response units for
3 interfacing said means for processing to said communica-
4 tion facility.

1 19. A system according to claim 17 further
2 including consumable key test means to qualify callers
3 with respect to limited use.

1 20. A system according to claim 17 wherein
2 said communication facility provides automatic number
3 identification (ANI) signals and said status means
4 selectively identifies said automatic number identifica-
5 tion signals as digital control signals or digital data
6 signals.

1 21. A voice-data control system for use with
2 a communication facility including remote terminals for
3 individual callers, wherein said remote terminals may
4 comprise a conventional telephone instrument including
5 voice communication means for providing audio signals
6 and digital input means for providing digital response
7 signals, said control system comprising:

8 cue means for cueing select ones of said
9 terminals to prompt selective operation of said voice
10 communication means and said digital input means at said
11 terminals to provide responsive signals;

12 status means to selectively indicate responsive
13 signals from each select terminal as digital
14 control signals, digital data signals or audio signals;

15 test means for testing caller identification
16 data for approval;

17 control means for receiving said digital
18 control signals including automatic number identification (ANI) signals to actuate, said test means, said
19 cue means and said status means in accordance with a
20 predetermined program; and

22 means for storing individual caller data as
23 received under control of said control means implementing said program.